USCMS Engineer Status Report for June 2003

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1 Work Performed This Month

IGUANA:

- o) CHEP03 paper has been written and submitted: http://iguana.web.cern.ch/iguana/docs/pres03-24-chep03-iguana/paper/iguana-arch-fram-tool.ps
 - o) Plan for 2004 has been discussed and the document has been started.
 - ORCA Visualisation:
 - o) Particle names added to the text info table.
- o) Event update bug related to update of 3D representations of invisible, but reconstructed objects has been fixed;
 - o) Tracker sim hits cubic shape has been fixed;
 - o) All assertion falures eliminated;
 - o) Gammas added to visualised sim tracks;
- o) Configuration (.orcarc) service has been added to the menu. Updates of the .orcarc configurables work for the next event.
 - o) Calorimetry hits iterator updated to the new style.

In more details:

- oo) Calorimetry visualisation:
- * calohit iterators changed to new style;
- * VisCaloDataProxy.cc: Update every twig after it is instantiated: it sets STRUCTURE_MASK to prevent automatic reconstruction.
 - oo) CobraVisBase:
 - * EventDataProxy.cc: Update event twig after it is instantiated.
 - * EventObserverTwig.cc: Fixed update of invisible event objects.
 - oo) CobraVisMain:
 - * BuildFile, CobraVisMain.cc: IgQtConfigService added and loaded.

- oo) Geant3 detector visualisation:
- * VisG3DetDataProxy.cc: Update every twig after it has been instantiated.
 - oo) Configuration service (IgQtConfigService):
 - * BuildFile: Export the library.
- * IgQtConfigService.cc: Rename the service to be a COBRA service, fix its appearance before Debug menu.
 - oo) Muon visualisation:
 - * VisMuDataProxy.cc: Update every twig after it's been instantiated.
 - oo) Tracker viualisation:
 - * BuildFile: Use DDCore and Particle libraries.
 - * VisTkEventDataProxy.cc: Update every twig with STRUCTURE_MASK.
- * VisTkSimTracksTwig.cc: Add particle name in the text table. Visualise gammas as dashed yellow lines. Build a particle decay tree.
 - * GeantEvent.h, GeantEvent.cc: New files decay tree prototype.

2 Plans For Next Month

o) Particle decay tree: implement as a twig tree with separate selection and visibility control for each of the tracks. It should be updated (recreated) for every new event.